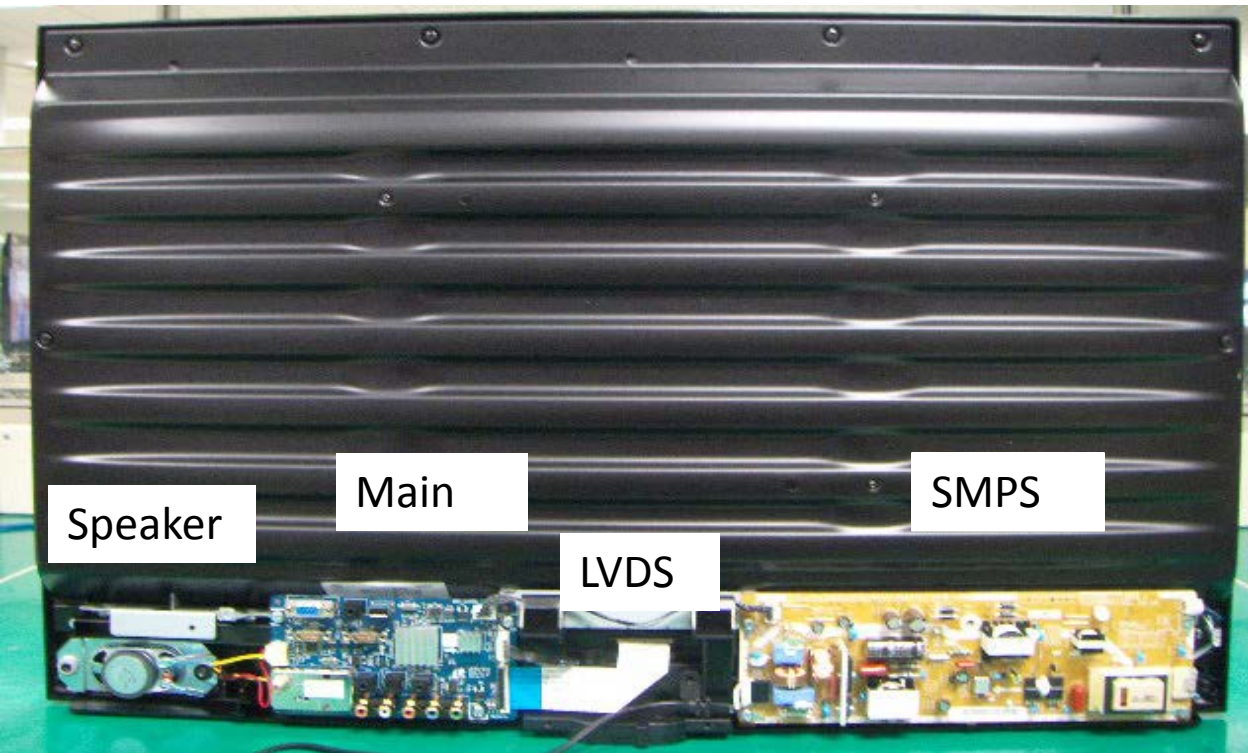




HELP : 1-888-751-4086; 1-866-894-0637 (FE)
GSPN

<http://gspn3.samsungcsportal.com>

PLUS ONE

<http://my.plus1solutions.net/clientPortals/samsung>

HOT TIPS

Power On Problems: (see page 2)

Video Problems: (see pages 3,4)

TIP: After replacing Main/Panel picture is upside down.

Fix: Test Mode/Mirror Option/Toggle

FIRMWARE

10/18/2010

**2010 LCD FIRMWARE FOR SX1
& X4 (T-TDT5AUCS, 1016.3 /
T-MSX5AUSC, 2006.0)**

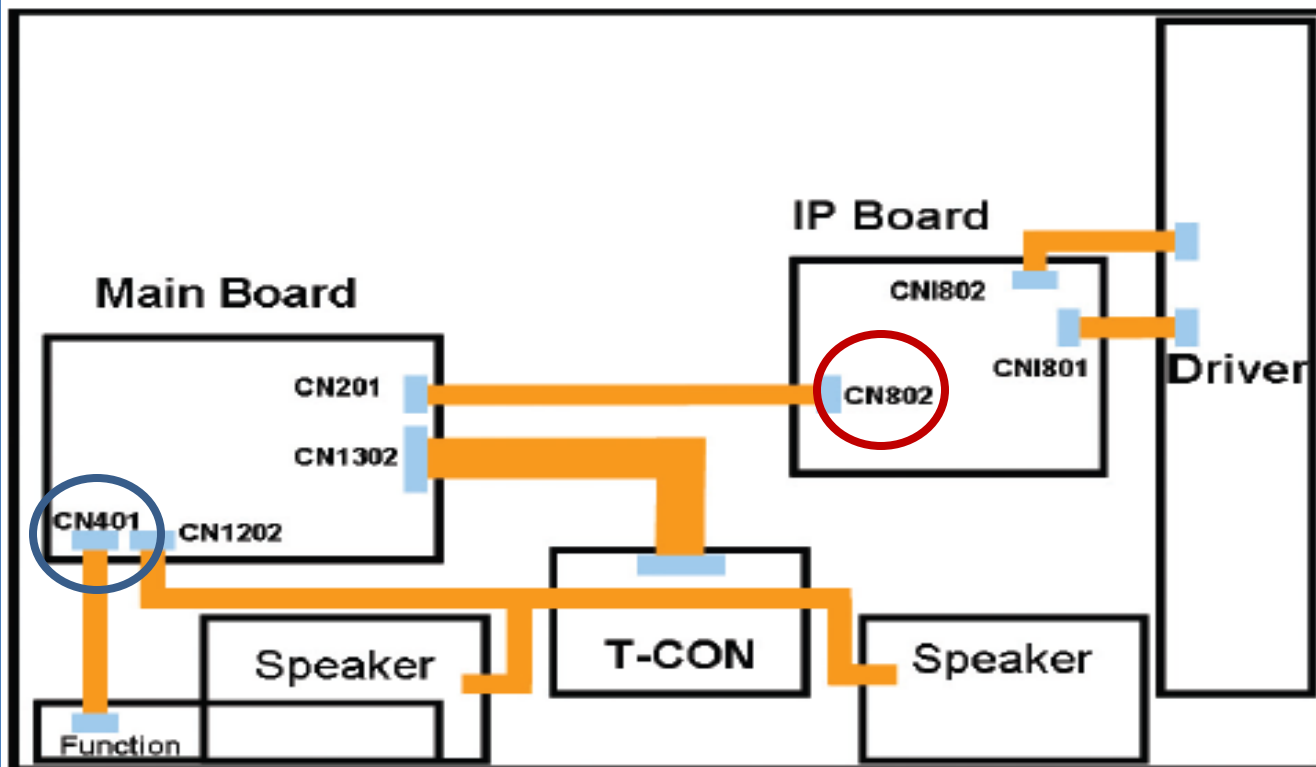
VER. 1016.6 (SX1), 2006.0 (X4)

**REASON: TO PREVENT DISTORTED
PICTURE ON 70 HZ AND DTV PIP
WITH 1080I MODE.**

SERVICE BULLETINS

BULLETINS : 2010 LCD Option Byte Tables

<u>Version</u>	<u>Parts No</u>	<u>Short Description</u>
ALL	BN44-00369A	Power PCB Function & IR PCB
ALL	BN96-13063B	
ALL	BN94-02649A	Main PCB
ALL	BN07-00867A	Panel
ALL		T-CON PCB
ALL	BN90-02527A	Stand Guide Neck
ALL	BN96-12863A	Rear Cover
ALL	BN96-12785A	Front Cover
ALL	BN61-06270A	Stand Guide
ALL	BN96-12870A	Stand Base
ALL	BN40-00140B	Tuner
ALL	BN96-12859A	Speaker
ALL	BN96-12469C	LVDS Cable
ALL	BN63-12845D	Power Cord
ALL	BN59-01006A	Remote
ALL	BN63-01798B	Cleaning Cloth

**CN802**

1	A5V	7	GND
2	Sw_P	8	PW_D
3	B5V	9	B13V
4	GND	10	SW_I
5	GND	11	B13V
6	GND	12	DET_

CN401

1	IR	5	SDA
2	GND	6	Key_1
3	A3.3V	7	Key_2
4	SCL	8	B5V

Power On Sequence (approximate Voltages)

1. **Standby Voltages:** CN802 (A5V)
2. **Power On** CN802-2 (0 – 3V)
3. **Low Voltage Supplies On** CN802- B Volts Listed on CN802)
4. **Back Light On** CN802-10 (0-3V, delayed)
5. **Back Light Confirm** CN802-12 (0–3V)
6. **Dimming Signal** CN802-8 (1V–4V approx)

To Force Backlight On without Main Board :

1. Remove Power Cord
2. Remove CN802
3. Plug Power Cord In.
4. Backlight should be on immediately.

TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

- Customer Picture Test** (models available)
- "Display"** (If display is OK source is suspected)
- Substitute with known good Source
(external DVD or Signal Generator)

2. Using Test Patterns in Service Mode

– **ENTER SERVICE MODE** –

- Select an active source signal. (HDMI preferred)
Test Pattern may rely on signal source to appear.

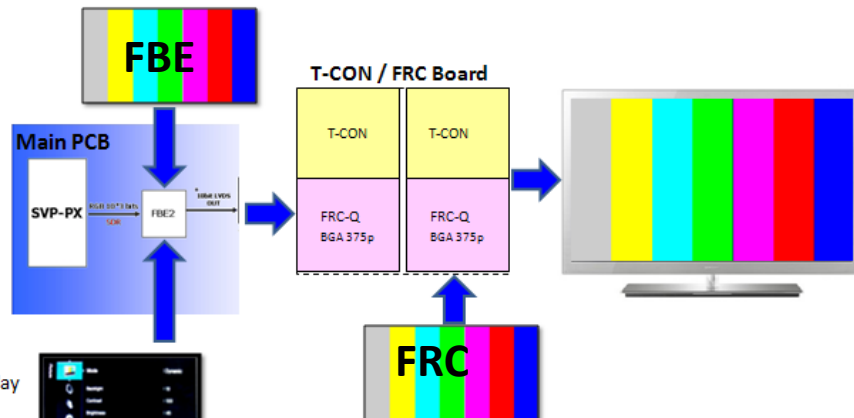
Customer Remote

- Power off
- Mute, 182, Power

Service Remote

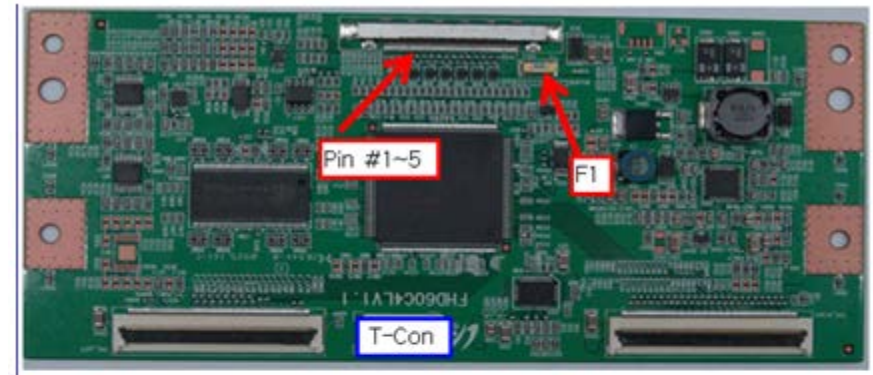
- Power On
- Info, Factory

2010 Models with FRC 120Hz/240Hz LCD Signal Path for Troubleshooting



1. Check OSD & Customer Picture Test.
2. Access SVC Mode (with source signal)
3. Activate **FBE** Test Patterns & Verify.
4. Activate **FRC** Test Patterns & Verify.

T-Con Troubleshooting



Check for 13V supply to Pins 1-5 and LVDS Side of F1 Fuse, if 13V is **NOT** present....

NO

Check for defective LVDS Cable or 13V feed error.

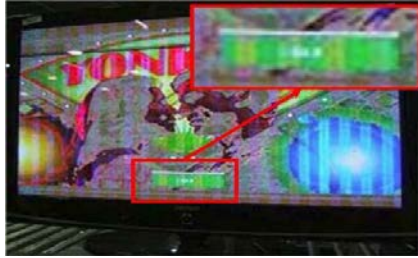
YES

if 13V IS present but NOT on both sides of F1 fuse (Open Fuse)....

NO

Change T-Con Board

ON SCREEN FAILURE EXAMPLES:



If Picture & Display errors
Defective Main Board, LVDS,
or T-CON



Green lines or a green screen
defective main board , LVDS , or
T-CON.

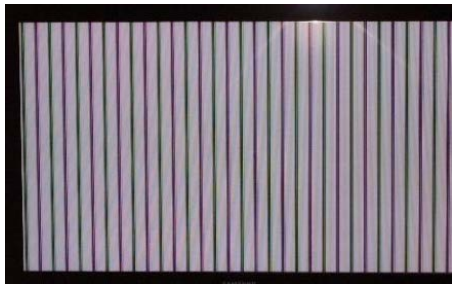


Original Image



Image on Screen

Pixelization can be caused by the main board
but is more commonly a source error



Vertical or Horizontal Lines :Defective
Panel likely but also T-CON, LVDS, or Main
Board. Use Test Patterns in Factory Service
Mode to determine error)

ALIGNMENTS:

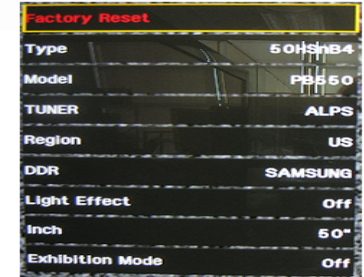
1. Check/Set Option Bytes:

Using the Customer Remote

1. Turn the power off and set to stand-by mode
2. Press the remote buttons in this order; POWER OFF-MUTE-1-8-2-POWER ON to turn the set on.
3. The set turns on and enters service mode. This may take approximately 20 seconds.
4. Press the Power button to exit and store data in memory.
- If you fail to enter service mode, repeat steps 1 and 2 above.
5. Initial SERVICE MODE DISPLAY State

Project	PB5G	PB5G	PB5G
Model	B550	B550	B550
Model Code	PN6B550T2FXZA	PN6B550T2FXZA	PN6B550T2FXZA
No.	ITEMS		
1	Factory Reset	-	-
2	Type	50FSpl4	58FNK1
3	Model	PB550	PB550
4	TUNER	ALPS	ALPS
5	Region	US	US
6	DDR	SAMSUNG	SAMSUNG
7	Light Effect	Off	Off
8	Inch	50"	58"
9	Exhibition Mode	Off	Off

Option Bytes



Model Code	Side Label					
		Type	Model	Tuner	Region	DDR
LN32C350D1DXZA	BN01	32P6AHOC	LC350	Xugang	US	Etron

2. Check/Perform Firmware Upgrade for all repairs.

3. Perform reset in Service Mode & Plug and Play if Main board is replaced.

SPECIAL NOTES:

Inform customer of reset of all
Settings if Main Board or Panel is replaced.